What is claimed is:

1. A method for preparing a thieno[3,2-c]pyridine derivative of formula (1) comprising reacting a compound of formula (2e) with a compound of formula (3) or its salt:

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$$H_2N$$
 $(3)$ 

wherein,

R is hydrogen or methoxycarbonyl; and

X' and Y' are each independently chloro, bromo, methanesulfonyl or p-toluenesulfonyl.

2. The method of claim 1, wherein the compound of formula (2e) is obtained by (a) cyclizing a compound of formula (4) with 2,5-dihydroxy-1,4-dithiane to obtain a compound of formula (2a), (b) reducing the compound of formula (2a) with a reducing agent to obtain a compound of formula (2b), and (c) reacting the compound of formula (2b) with a halogenating or sulfonylating agent:

$$R_6O_2C$$
  $CO_2R_7$  (4)

5 wherein,

 $R_3$  and  $R_4$  are each independently hydrogen or straight or branched  $C_{1\text{-}6}$  alkyl, and  $R_6$  and  $R_7$  are each independently straight or branched  $C_{1\text{-}6}$  alkyl.

3. The method of claim 1, wherein the compound of formula (2e) is obtained by

(a) cyclizing directly 2-thiopheneethanol with formylating agent, or reacting

2-thiopheneethanol with dialkoxymethane to obtain a compound of formula (2c)

and then cyclizing the compound of formula (2c), to obtain the compound of
formula (2d) and (b) reacting the compound of formula (2d) with a halogenating
agent:

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20 wherein,

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 $R_5$  is  $C_{1-4}$  alkoxymethyl.

- 4. The method of claim 1, wherein the compound of formula (3) is 2-chlorobenzylamine or (S)-(+)-2-chlorophenylglycin methyl ester, or a salt thereof.
- 5. The method of claim 1, wherein the compound of formula (3) or its salt is employed in an amount of 1 to 2 molar equivalents based on the amount of the

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compound of formula (2e).

- 6. The method of claim 1, wherein the reaction is conducted in an organic solvent in the presence of a base.
- 7. The method of claim 6, wherein the organic solvent is selected from the group consisting of tertiary alcohols, ethers, nitriles, esters, optionally halogenated hydrocarbons, amides, toluene, dimethylsulfoxide and a mixture thereof.
- 8. The method of claim 6, wherein the base is an organic base selected from the group consisting of triethylamine, diisopropylethylamine, tributylamine, pyridine, picoline and a mixture thereof, or an inorganic base selected from the group consisting of sodium hydrogen carbonate, sodium carbonate, potassium hydrogen carbonate, potassium carbonate, sodium hydrogen phosphate, potassium hydrogen phosphate and a mixture thereof, or a combination thereof.
  - 9. The method of claim 6, wherein the base is employed in an amount of 2 to 5 molar equivalents based on the amount of the compound of formula (2e).
- 20 10. The method of claim 1, wherein the reaction is carried out at a temperature ranging from room temperature to the boiling point of the solvent used.
  - 11. A compound of formula (2a) as an intermediate for the preparation of a thieno[3,2-c]pyridine derivative of formula (1) according to claim 1:

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wherein,

 $R_3$  and  $R_4$  are each independently hydrogen or straight or branched  $C_{1\text{-}6}$  alkyl.

30 12. A compound of formula (2b) as an intermediate for the preparation of a thieno[3,2-c]pyridine derivative of formula (1) according to claim 1.

13. A compound of formula (2c) as an intermediate for the preparation of a thieno[3,2-c]pyridine derivative of formula (1) according to claim 1:

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wherein,

 $R_5$  is  $C_{1-4}$  alkoxymethyl.

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14. A compound of formula (2d) as an intermediate for the preparation of a thieno[3,2-c]pyridine derivative of formula (1) according to claim 1.

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15. A compound of formula (2e) as an intermediate for the preparation of a thieno[3,2-c]pyridine derivative of formula (1) according to claim 1:

wherein,

X' and Y' are each independently chloro, bromo, methanesulfonyl or p-toluenesulfonyl.

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